

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009994 A1

(51) International Patent Classification: **C07D 409/12**,
A61P 11/00, 37/00, A61K 31/4436, C07D 409/14, 471/04,
417/14, 413/14

and Development, Ramsgate Road, Sandwich, Kent CT13
9NJ (GB).

(21) International Application Number:
PCT/IB2004/002367

(74) Agents: **WOOD, David, J. et al.**; Pfizer Research and
Development, Ramsgate Road, Sandwich, Kent CT13 9NJ
(GB).

(22) International Filing Date: 13 July 2004 (13.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0317498.4 25 July 2003 (25.07.2003) GB

(71) Applicant (for GB only): **PFIZER LIMITED** [GB/GB];
Ramsgate Road, Sandwich, Kent CT13 9NJ (GB).

(71) Applicant (for all designated States except GB, US):
PFIZER INC. [US/US]; 235 East 42nd Street, New York,
NY 10017 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BARBER, Christo-
pher, Gordon** [GB/GB]; Pfizer Global Research and
Development, Ramsgate Road, Sandwich, Kent CT13
9NJ (GB). **BUNNAGE, Mark, Edward** [GB/GB]; Pfizer
Global Research and Development, Ramsgate Road,
Sandwich, Kent CT13 9NJ (GB). **HARVEY, John,
Wilson** [GB/GB]; Pfizer Global Research and Develop-
ment, Ramsgate Road, Sandwich, Kent CT13 9NJ (GB).
MATHIAS, John, Paul [GB/GB]; Pfizer Global Research

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

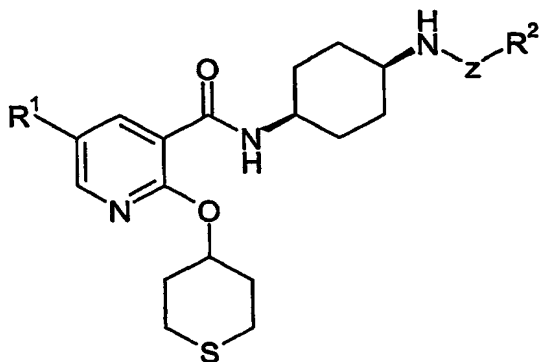
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: NICOTINAMIDE DERIVATIVES USEFUL AS PDE4 INHIBITORS



(I)

(57) Abstract: This invention relates to nicotinamide deriva-
tives of general formula (I) in which R1, Z and R2 have the
meanings defined herein, and to processes for the preparation
of, intermediates used in the preparation of, compositions con-
taining and the uses of such derivatives.

WO 2005/009994 A1